## **ABSTRACT**

A sealant composition for use in sealing solid oxide fuel cells is provided which comprises a glass component which comprises a mixture of alkali–free inorganic oxides, and an optional filler component dispersed in the glass component, said filler component being up to 40% by weight of the composition. The glass component can include, on a mole basis, 20 to 50 % BaO, 1 to  $10\% \ Y_2O_3$ , 5 to  $20\% \ B_2O_3$ , 10 to  $30\% \ SiO_2$ , 3 to  $35\% \ MgO$ , 2 to  $20\% \ CaO$ , 1 to  $10\% \ ZnO$ , and 0 to  $5\% \ ZrO_2$ , and exemplary filler components include zirconia, alumina, barium titanate, strontium titanate, and combinations thereof.